

**Practice: 570 - Stormwater Runoff Control****Scenario: #1 - Silt Fence (Area of const. site)****Scenario Description:**

This scenario involves installation of silt-fence on a construction site as part of the conservation engineering system. This practice is to control sedimentation. This practice may be part of a combined system that will address the resource concerns related with concentrated flow erosion, excessive sediment in surface waters as well as protection of existing inlets and structures depending on the combination. If earthen basins are warranted for water quality improvement purpose, use Sediment Basin (350). If seeding is warranted for water quality and erosion control purpose, use Critical Area Planting (342). If erosion control blankets, mulching, and straw are warranted they will be applied under Mulching (484). Associated practices: Sediment Basin(350), Critical Area Planting (342), and Mulching (484)

**Before Situation:**

Stormwater runoff from construction sites causes or may cause undesirable downstream flooding, sedimentation or channel degradation and/or degradation to surface or groundwater quality if left untreated.

**After Situation:**

Silt fence is installed on 25% of the perimeter (208 LF) of a 1 acre construction site to prevent sediment transport off the disturbed area. A typical silt fence consists of a synthetic filter fabric stretched between a series of fence stakes, with the stakes installed on the downstream side of the perimeter and the fabric trenched into the soil on the upstream side and backfilled. Other practices will be paid under the appropriate scenario.

**Scenario Feature Measure:** Area of construction site

**Scenario Unit:** Acre

**Scenario Typical Size:** 1

**Scenario Cost:** \$494.31

**Scenario Cost/Unit:** \$494.31

**Cost Details (by category):**

Component Name	ID	Component Description	Unit	Price (\$/unit)	Quantity	Cost
<b>Equipment/Installation</b>						
Truck, Pickup	939	Equipment and power unit costs. Labor not included.	Hour	\$42.39	1.5	\$63.59
<b>Labor</b>						
Supervisor or Manager	234	Labor involving supervision or management activities. Includes crew supervisors, foremen and farm/ranch managers time required for adopting new technology, etc.	Hour	\$41.91	1.5	\$62.87
General Labor	231	Labor performed using basic tools such as power tool, shovels, and other tools that do not require extensive training. Ex. pipe layer, herder, concrete placement, materials spreader, flagger, etc.	Hour	\$20.77	10	\$207.70
<b>Materials</b>						
Silt Fence	43	Silt Fence with support post. Includes materials, equipment and labor	Foot	\$0.77	208	\$160.16